



**Chandler ♦ Arizona**  
*Where Values Make The Difference*

City of Chandler

Small Municipal Separate Storm Sewer System Annual Report

December 19, 2003 through June 30, 2004

## Small MS4 Annual Report Form AZPDES Permit AZG2002-002

### A. General Information

Name of Municipality or System: City of Chandler

Contact Name: Jon Sherrill

Contact Telephone Number: (480) 782-3503

Email Address: [jon.sherrill@ci.chandler.az.us](mailto:jon.sherrill@ci.chandler.az.us)

Annual Report Year: ☒ December 19, 2002 – June 30, 2004 ☐ July 1, 2004 – June 30, 2005

☐ July 1, 2005 - June 30, 2006 ☐ July 1, 2006 – June 30, 2007

### B. Describe the SWMP status

**Table 1**

BMP	Measurable Goal	New	Start Date	Implementation Status	Effectiveness in reducing pollutants is being measured by
Newsletter Articles	Public Education	No	May 2003	Ongoing. First article was included in 2003 Water Quality Annual Report End Date: December 2007	Educate residents on pollution prevention by proper use of chemicals and disposal waste products. 96312 2002 Water Quality Report mailed to residents 97000 2003 Water Quality Report mailed to residents Copies included in Appendix A
Stormwater Brochure	Public Education/Public Involvement	No	August 2003	Ongoing. School artwork contest was completed in June 2004 End Date: December 2007	Educate public on disposing of household hazardous waste, pool discharges, lawn irrigation, landscaping products and potential effects on the environment
Stormwater Webpage	Public Education/Public Involvement	No	August 2003	Ongoing. School artwork contest was completed in June 2004 End Date: December 2007	Provides an easy, friendly way to educate the public. At a minimum the webpage provides information similar to that in brochures, newsletters, and other educational material. A link will be provided to access the NOI and SWMP.
Stormwater Signage	Public Education	No	January 2004	Ongoing End Date: June 2007	Public education on stormwater pollution Do's and Don'ts Draft sign content prepared.

<b>BMP</b>	<b>Measurable Goal</b>	<b>New</b>	<b>Start Date</b>	<b>Implementation Status</b>	<b>Effectiveness in reducing pollutants is being measured by</b>
Storm Drain Placards	Public Education/Public Involvement	No	July 2003	Ongoing End Date: June 2007	Placards will read "Only Rain in the Storm Drain" or similar message. Community clubs and/or school to assist with installation
Landscaping and Lawn Care	Public Education/Public Involvement	No	March 2003	Ongoing End Date December 2007	Assist in the management of irrigation runoff. 674 low water use landscape conversions 404 irrigation timer rebates
Conservation Calendar	Public Education/Public Involvement	Yes	August 2003	Complete	Chandler Kids for Conservation Calendar. Education on water conservation, recycling and pollution prevention Appendix B
Classroom Presentations	Public Education/Public Involvement	Yes	May 2004	Ongoing End Date: December 2007	Approximately 200 students attended classroom presentations.
Hamilton Science Fair	Public Education/Public Involvement	Yes	February 2004	Ongoing End Date: December 2007	Approximately 5,000 fair attendees
STORM Membership	Public Education	Yes	March 2003	Ongoing End Date: December 2007	Public Service Announcement reached 759,500 in the 12 and up age group and 682,800 in the 18 and up age group STORM Annual Report included in Appendix C
Public Meetings	Public Participation	No	June 2003	Ongoing End Date: December 2007	One Public Meeting with 2 residents attending. Two mailers to 746 residents Public Meeting Notices included in Appendix D
Stormwater Pollution Hotline	Public Participation/Illicit Discharge Detection and Elimination	No	November 2004	Ongoing End Date: December 2007	A dedicated telephone number with voice mail capabilities that citizens can call if they witness an activity or observe pollution that would impact stormwater quality.
Stormwater System Map	Illicit Discharge Detection and Elimination	No	March 2003	Ongoing End Date: December 2007	Identifies the known locations of outfalls, catch basins, scuppers and other stormwater structures that drain to the MS4.
Plan Review	Illicit Discharge Detection and Elimination/Post Construction Stormwater Management	No	March 2003	Ongoing End Date: December 2007	Plan reviews are completed to catch any illicit connections from wastewater discharge into the stormwater system.

<b>BMP</b>	<b>Measurable Goal</b>	<b>New</b>	<b>Start Date</b>	<b>Implementation Status</b>	<b>Effectiveness in reducing pollutants is being measured by</b>
Spill Prevention and Containment	Illicit Discharge Detection and Elimination/Pollution Prevention and Good Housekeeping	No	March 2003	Ongoing End Date: December 2007	Prevention of material spilled from entering storm drain systems A total of 304 incidents/spills were responded to and resolved Summaries of the spills and incidents responded to are included in Appendix E
Dry Weather Field Screening	Illicit Discharge Detection and Elimination	No	March 2003	Ongoing End Date: December 2007	Two discharge points were inspected Arrowhead Basin was inspected weekly and material observed and amount removed was noted. Denver Basin is inspected weekly and material observed and amount removed is noted. Forms used for spill response are included in Appendix F
Grading and Drainage Permit	Construction Site Stormwater Runoff	No	March 2003	Ongoing End Date: December 2007	A grading and drainage permit is required for new projects. These detail the City's requirements for runoff control. 65 were issued during the reporting period. A list of the Grading and Drainage Permits Issued is included in Appendix G
Construction Site Inspections	Construction Site Stormwater Runoff	No	March 2003	Ongoing End Date: December 2007	Sites are inspected for infractions to the Grading and Drainage Permit, and County and/or City regulations and Standards. 120 Final Inspections were completed
Construction Stormwater Handbook	Construction Site Stormwater Runoff	No	August 2003	Ongoing End December 2007	Provides a single source for construction site BMPs, sediment control, permit applications, inspections, and non-stormwater and water management issues.
Property Owner Manual	Post-Construction Stormwater Management	No	November 2004	Ongoing End December 2007	Provides a means to inform property owners about stormwater management and pollution prevention.
Storm Drainage System Technical Design Manual	Post-Construction Stormwater Management	No	March 2003	Ongoing End December 2007	The manual outlines the design and policy for hydrology design, street drainage, storm drains, basins, and disposal of storm water and maintenance standards.
One-Year Warranty Inspections	Post-Construction Stormwater Management	No	March 2003	Ongoing End December 2007	A one-year warranty inspection is completed developments and redevelopments to ensure that structures are constructed and operating properly. 79 One-Year Warranty Finals were completed. A copy of the One-Year Warranty List is included in Appendix H

<b>BMP</b>	<b>Measurable Goal</b>	<b>New</b>	<b>Start Date</b>	<b>Implementation Status</b>	<b>Effectiveness in reducing pollutants is being measured by</b>
Street Cleaning	Pollution Prevention and Good Housekeeping	No	March 2003	Ongoing End December 2007	90,532 total miles of streets swept. 4,131 tons of material removed A copy of Street Sweeping Information is included in Appendix I
Illegal Dumping	Pollution Prevention and Good Housekeeping	No	March 2003	Ongoing End December 2007	180 illegal dumping calls were received and abated Summary Report Included in Appendix E
Cleaning Catch Basins and Outfalls	Pollution Prevention and Good Housekeeping	No	March 2003	Ongoing End December 2007	423 catch basins and scuppers were cleaned Summary of Work Orders Included in Appendix J Arrowhead Basin was inspected weekly and material observed and amount removed was noted. Denver Basin is inspected weekly and material observed and amount removed is noted.
Hazardous Material Storage	Pollution Prevention and Good Housekeeping	No	March 2003	Ongoing End Date: December 2007	125 employees trained during 8 hour HAZWOPR Update 56 employees during Hazardous Communication Training
Household Hazardous Waste Collection	Pollution Prevention and Good Housekeeping	Yes	March 2003	Ongoing End Date: December 2007	Two events collected 54,000 pounds of household hazardous waste. Summary letter included in Appendix K
Employee Training	Pollution Prevention and Good Housekeeping	No	March 2003	Ongoing End Date: December 2007	60 Employees were trained

**C. Check “yes” or “no” as it applies to your municipality. Provide a brief description as an addenda when you check ‘yes’ to any of the following statements. ADEQ would like the description to include the information in Part C of the instructions for this form.**

- |    |   |   |  |
|----|---|---|--|
| 1. | Changes have been made to the SWMP.   | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 2. | A waterbody within 10 miles of the municipality’s jurisdiction has been indicate as an “impaired” water in Arizona’s current 303(d) list. | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 3. | A TMDL has been approved by EPA for a receiving water within 10 miles of the municipality’s MS4 jurisdiction.                             | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 4. | The municipality has annexed lands (Figure 1)   | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 5. | The municipality conducted analytical monitoring of stormwater quality.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |

#### **D. Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

---

Signature

---

Date

---

Name (printed)

---

Title

## **Addenda**

### **Section C – Part 1 – Changes have been made to SWMP**

#### **New Best Management Practices:**

The City of Chandler's Recycling, Stormwater and Water Conservation Programs combined resources to complete a Conservation Art Contest. Art contest materials (poster, rules and entry form) were developed by Hamilton High School's Graphic Arts Students. The conservation art contest was held for all 4<sup>th</sup> graders in the City of Chandler. Students were asked to create art pictures reflecting conservation issues in recycling, water conservation and storm water pollution prevention. Upon completion of the art contest, a 12-month calendar was created using the winning drawings. A copy of the calendar is included (Appendix B).

At the request of teachers in the City of Chandler, City Staff gave classroom presentations in the areas of recycling, stormwater pollution prevention and water conservation. Specifically, presentations/interactive activities were used to help students understand what their actions can do to contribute to or prevent stormwater pollution.

A booth with stormwater information was setup at the annual Hamilton High School Science Fair. An interactive stormwater display was used to communicate stormwater pollution and stormwater pollution prevention.

The City of Chandler became a member of Stormwater Outreach for Regional Municipalities (STORM). This organization has combined the knowledge and resources of 13 local jurisdictions and agencies in the greater Phoenix area. The organizations goal is "to promote regional stormwater education thorough outreach." One PSA was developed and used over radio.

Reporting of Household Hazardous Waste Collection events has been included as a Pollution Prevention/Good Housekeeping Best Management Practice. Two events per calendar year are held and residents within the City are encouraged to properly dispose of household waste. These events help in the prevention of wastes being improperly disposed in the environment and helping to prevent stormwater pollution.



## **E. Delayed Best Management Practices**

Due to budgetary constraints the development of the stormwater hotline was delayed. The development and implementation of the hotline is anticipated to begin in November 2004.

Due to budgetary constraints the development of the property owner's manual was delayed. The development and implementation of the hotline is anticipated to begin in November 2004.

## **F. Updated/Changed Best Management Practices**

During preparation of the annual report, plan review information was found to be difficult to obtain. Although plan review process is in place and happening, the current method of data retrieval/data request was found to be cumbersome and very time consuming. An effort will be made to streamline the data request process during the next reporting period.

No records are kept on the number of Technical Design Manual No. 3 distributed, project type distributed for or the project location associated with the request for a manual. These manuals are provided to designers to update their design libraries in the event they are required to design a project in Chandler; though they have no project at the time. Many are passed out by and to other City Departments and Divisions. How the manuals are produced (total number of copies) and number distributed will be reviewed and reported in next annual report.

A review of the dry weather flow records was completed as part of the report preparation. Although information is collected on date, location, and debris removed from outfalls, no clear records are kept as to the qualitative description of observed flows. During the next reporting period a detailed dry weather flow reporting process and form will be developed and implemented.

## **Section C – Part 4 The City Has Annexed Lands**

During the reporting period the City of Chandler annexed approximately 1,316 acres of land. The majority of this land is undeveloped former agricultural fields or dairy farms and smaller developed residential properties. The map included in Appendix B details the areas that have been annexed. If necessary during and post development the following BMPs will be implemented in these areas:

- Public Meetings
- Stormwater System Map
- Plan Review
- Spill Prevention and Detection
- Grading and Drainage Permit
- Construction Site Inspections
- Construction Stormwater Handbook
- Property Owner Manual
- Storm Drainage System Technical Design Manual
- One-Year Warranty Inspection
- Street Cleaning
- Illegal Dumping

**D. Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Bryan D. Peterson  
Signature

9-23-04  
Date

Bryan D. Peterson  
Name (printed)

Public Works Director  
Title